[illegible]

[illegible]

[illegible]

1 [illegible]

[illegible] 1. [illegible] ②③④⑦ [illegible]

[illegible] ⑥⑨

① [illegible]　② NaOH　③ NaCl [illegible]

④ $BaSO_4$　⑤ CH_3COOH　⑥ NH_3

⑦ $NaHCO_3$　⑧ Cu　⑨ [illegible]

[illegible]

[illegible]

① [illegible]

[illegible]

② [illegible]

- [illegible]
  - [illegible]
    - [illegible]
      - [illegible]
      - [illegible]
      - [illegible] **NaCl** [illegible]
      - [illegible]
    - [illegible]
      - [illegible] (**HF** [illegible] **HClO** [illegible])
      - [illegible] ($NH_3 \cdot H_2O$ [illegible])
      - [illegible]
      - [illegible] $(CH_3COO)_2Pb$ [illegible]
  - [illegible]

[illegible]

1.[illegible] ×

2.[illegible] √

3.[illegible] ×

4.[illegible] ×

5.[illegible] ×

6.[illegible] ×

7.[illegible] ×

2 [illegible]

[illegible]2. [illegible]

① CH_3COOH　　② H_2SO_4　　③ H_2CO_3

④ $Cu(OH)_2$　　⑤ $NH_3\cdot H_2O$　　⑥ $KHSO_3$

⑦ $KHSO_4$

[illegible]

[illegible]

3 [illegible]

[illegible] 3. [illegible] [illegible] D

A 100mL 0.5mol/L [illegible]

B 100mL 2mol/L [illegible]

C 100mL 1mol/L [illegible]

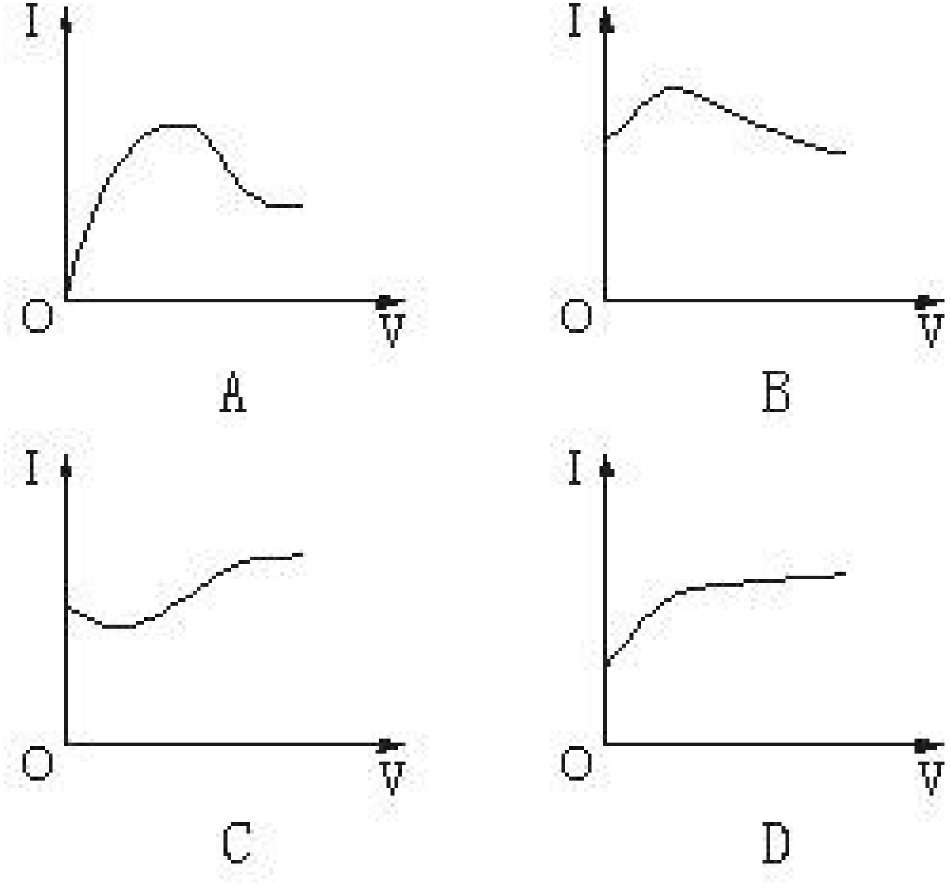
D 30mL 1mol/L [illegible] $CaCl_2$ [illegible]

[illegible]

[illegible]

[illegible] 0.1 mol·L^{-1} [illegible]
[illegible] (*I*) [illegible]
[illegible] (*V*) [illegible]

B



[illegible]

1 [illegible]

$$CH_3COOH \rightleftharpoons CH_3COO^- + H^+$$

[illegible]

[illegible]

[illegible] v([illegible]) [illegible] v([illegible])

[illegible]

[illegible]

[illegible]

2 [illegible]

[illegible]
[illegible] T [illegible] C [illegible]

$CH_3COOH \rightleftharpoons H^+ +$ △[illegible] >0

[illegible] **0.1mol/L CH_3COOH** [illegible]

[illegible]

T ↑ K_a ↑

[illegible] 1 [illegible]

[illegible]

[illegible]

[illegible] 2 [illegible]

[illegible] 3 [illegible]

[illegible] 4 [illegible] **0.1mol/L** [illegible]

[illegible] 5 [illegible] $CH_3COONa(s)$

[illegible]

[illegible] 6 [illegible] NaOH(s)

[illegible] 7 [illegible] Zn [illegible]

[illegible]

1 [illegible]

[illegible]

[illegible]

2 [illegible]

[illegible] H^+ [illegible] CH_3COO^- [illegible]

[illegible] OH^- [illegible]

3 [illegible] [illegible] K [illegible]

[illegible] K_a

[illegible] K_b

① [illegible]

[illegible] $HA \rightleftharpoons H^+ + A^-$

$$K_a = \frac{c(H^+)\,c(A^-)}{c(HA)}$$

[illegible] $BOH \rightleftharpoons B^+ + OH^-$

$$K_b = \frac{c(B^+)\,c(OH^-)}{c(BOH)}$$

② [illegible] K_a [illegible]

[illegible]

[illegible]

③ K_a [illegible] K [illegible]

□□□□

□□ $H_2CO_3 \rightleftharpoons H^+ + HCO_3^-$ $K_{a1}=4.4\times10^{-7}$

$HCO_3^- \rightleftharpoons H^+ + CO_3^{2-}$

$K_{a2}=4.7\times10^{-11}$

□□ $K_{a1} >> K_{a2}$， □□□□□□□□ H^+ □□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□

□□□□□

① K_{a1} □ K_{a2} □□□□□ $[H^+]$ □ $[HCO_3^-]$ □□□□□

② K_{a1} □□□□ K_{a2} □□□□

③ □□□□□□□□□□□ CO_2 □□□□□□□□□

□□□□□□□ K □ CH_3COOH □ $=1.7\times10^{-5}$ □

[illegible]

1 [illegible] 0.1mol/L [illegible]

$CH_3COOH \rightleftharpoons CH_3COO^- + H^+$ [illegible] $\frac{C(H^+)}{C(CH_3COOH)}$

[illegible] **BD** [illegible]

A. [illegible] NaOH(S)　　B. [illegible]

C. [illegible]　　D. [illegible]

2 [illegible] P41 [illegible] 4 [illegible]

4 [illegible] α

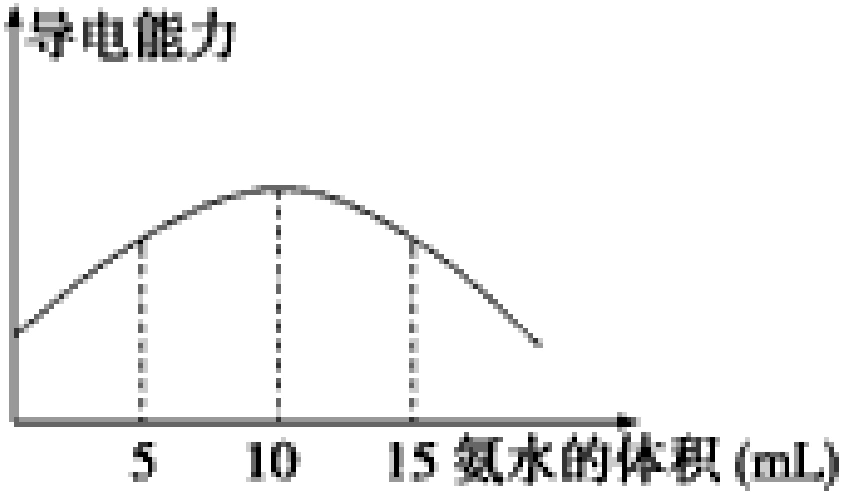
$$\alpha = \frac{\text{[illegible]}}{\text{[illegible]}} \times 100\%$$

$$CH_3COOH \rightleftharpoons CH_3COO^- + H^+$$

$$\alpha = \frac{C(CH_3COO^-)}{C_0(CH_3COOH)} \times 100\%$$

$$\approx \frac{C(H^+)}{C_0(CH_3COOH)} \times 100\%$$

□□1□□□□□□□□□□□□□□□□□□□□□□□□□=(□□□□□□□□/□□□□□□□□)×100%□□□20 mL $C(H^+)=10^{-3}$mol/L□ CH_3COOH□□□□□0.2 $mol\cdot L^{-1}$□□□□□□□□□□□□□□□□□□□
□□□□
CH_3COOH□□□□□



[**C**]

A□0.5%
B□1.5%
C□1%
D□0.1%

[illegible]

[illegible] P40 [illegible] 4 [illegible]

	[illegible] 0.01mol·L[illegible]1 [illegible] HA [illegible] HB	H^+ [illegible] 0.01mol/L [illegible] HA [illegible] HB
H^+ [illegible]	$C(H^+)_{(HA)}$ >> $C(H^+)_{(HB)}$	C(HB) >> C(HA)
[illegible]	$v_{(HA)} > v_{(HA)}$	$v_{(HA)0} = v_{(HB)0}$
[illegible]	[illegible]	HB [illegible]
[illegible] H_2 [illegible]	[illegible]	HB [illegible] H_2 [illegible]

□□□□□□□□

1. □□□□□□□□ a. □□　b. □□　c. □□□□□□

(1) □□□□□□□□□□□□□□ c(H□) □□□□□□□□

___**b>a>c**___ □

(2) □□□□□□□□□□□□□□□□□□ NaOH □□□□□□□□□□□

___________ □　**b>a=c**

(3) □□□ c(H□) □□□□□□□□□□□□□□□□□□

___**c>a>b**___ □

(4) □□□ c(H□) □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□ ___________ □　**c>a□b**

(5) □□□ c(H□) □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

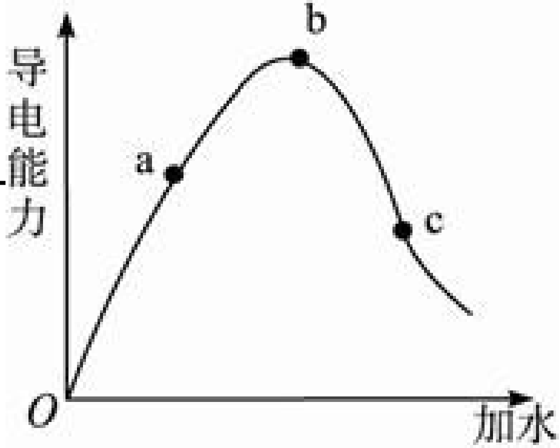
□□□□□□ H_2(□□□□) □□□□□□□□□□□□□□□ ___________ □　**a□b□c**

□□□□□□□□□□□□ ___________ □

a□b>c

2. [illegible], [illegible], [illegible]:

(1)“O” [illegible] 0 [illegible]



______ [illegible] ______

(2)a [illegible] b [illegible] c [illegible] H^+ [illegible]

[illegible] ____c < a < b____ [illegible]

(3)a [illegible] b [illegible] c [illegible] (α) [illegible] ________ [illegible]

c

(4) [illegible] C [illegible] $c(CH_3COO)^-$ [illegible], [illegible] ________

____ ([illegible]) [illegible] B C E F

A. [illegible]

B. [illegible]

C. [illegible] NaOH [illegible]

D. [illegible]

E. [illegible] CH_3COONa

F. [illegible] Zn [illegible]

3. □□□□□□□□□□□□□□□□□□A□B□A□□□□B□□□□□□□
□□
(　　)

A

① □□□□□□□□B□A

② □□□□□□□□A□B

③ □□□□□□□□□□□A=B

④ □□□□□□□□□B□A

⑤ □□□□□□□

⑥ □□□□□□□

A.③④⑤　　B.③④⑥　　C.②③⑤　　D.②③⑥